

ABSTRACT OF THE DISCLOSURE

Generation of a decentralized model on a computer network comprises generating data objects and/or function objects, publishing references to the data objects and/or the function objects and subscribing to the data objects and/or the functions by creating relationships between the data objects and/or the function objects through referencing data objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge. The decentralized linked data objects and/or function objects are made available for further linking with other data objects and/or function objects and messages are sent to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change. The functions are solved when the messages are received, thereby causing at least one of the referenced data to be changed. The data objects and/or the function objects are stored in a distributed manner across multiple computing devices on a computer network. The relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.